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ABSTRACT OF THE DISCLOSURE

Methods and associated systems are disclosed for providing secured data transmission over a data network. Data to be encrypted and encryption information may be sent to a security processor via a packet network so that the security processor may extract the encryption information and use it to encrypt the data. The encryption information may include flow information, security association and/or other cryptographic information, and/or one or more addresses associated with such information. The encryption information may consist of a tag in a header that is appended to packets to be encrypted before the packets are sent to the security processor. The packet and tag header may be encapsulated into an Ethernet packet and routed via an Ethernet connection to the security processor.

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